

**Appendix 4  
Schedule 1  
Calculation of 10-Year Average HDD**

Month	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	10 year average (2009 - 2018)
Jan	866	686	744	715	812	771	829	713	712	764	761
Feb	664	608	697	700	672	717	858	628	657	621	682
Mar	675	556	621	572	603	760	743	654	690	602	648
Apr	420	367	420	379	441	453	537	475	416	445	435
May	245	262	259	224	235	308	233	259	264	280	257
Jun	102	114	150	119	107	120	163	121	94	168	126
Jul	42	13	21	12	13	1	28	30	27	14	20
Aug	30	21	14	5	17	28	3	23	29	9	18
Sep	135	107	90	76	106	118	73	101	92	125	102
Oct	345	290	249	240	291	228	315	255	203	341	276
Nov	392	429	397	424	472	461	420	401	440	520	436
Dec	643	515	569	589	744	582	545	665	695	709	626
	4,559	3,968	4,231	4,055	4,513	4,547	4,747	4,325	4,319	4,599	<b>4,386</b>
	Standard Deviation										250

Appendix 4 Schedule 2 Calculation of MWh/HDD Coefficient								
Year	Month	Days in month	Actual HDD	HDD per day	Reported sales ( MWh )	Fewer hours of daylight	Average HDD per day	Average MWh per day
2018	Jul	31	14	0.5	74,378			
	Aug	31	9	0.3	84,692			
	Sep	30	125	4.2	81,747			
	Oct	31	341	11.0	75,686	2.52	7.6	2,523
	Nov	30	520	17.3	89,804	4.07	14.2	2,897
	Dec	31	709	22.9	103,979	5.21	20.1	3,466
2019	Jan	31	757	24.4	112,477	5.40	23.6	3,628
	Feb	28	737	26.3	116,531	4.53	25.4	3,759
	Mar	31	638	20.6	102,342	3.11	23.4	3,655
	Apr	30	449	15.0	93,021	1.53	17.8	3,001
	May	31	352	11.3	84,397	0.00	13.2	2,813
	Jun	30	106	3.5	81,030			
<b>Linear regression results: (Oct 2018 - May 2019)</b>								
			HDD	Daylight hrs	b			
			68.07	33.79	1870.95	coefficients		
			6.48	21.23	102.46	standard error coefficients		
			0.97	87.76	#N/A	R <sup>2</sup> , standard error y		
			95.60	5.00	#N/A	F, degrees of freedom		
			1472508	38507.28	#N/A	Regression SS, residual SS		
			10.50	1.59	18.26	t values		

**Appendix 4  
Schedule 3  
Calculation of Forecast Marginal Net Revenue Rate for 2020**

Rate Class	2020 (Forecast)		
	Revenue (\$)	Sales (MWh)	Unit Revenue (\$/MWh)
Residential	91,615,358	653,405	*
General Service	61,966,482	393,291	*
Small Industrial	13,275,383	94,280	
Total	166,857,223	1,140,975	\$ 146.24
ECAM Base Rate			<u>\$ (92.45)</u>
	Marginal Net Revenue Rate		<u>\$ 53.79</u>

\* Excludes revenue and kWh sales from seasonal customers

Appendix 4 Schedule 4 Monthly Change in Weather Normalization Adjustment Deferral Account - January 1, 2016 to December 31, 2019								
MM/YY	Heating Degree Days ( below 18 deg C )			Space heating load		Marginal Net Revenue (\$/MWh)	Weather Normalization Adjustment Deferral Account	
	Actual HDD	10 Year Average Monthly HDD	Variation from 10 Year Average HDD	Coefficient (MWh/HDD)	Variation from Average ( MWh )		Increase (Decrease) (\$)	Balance Owing (Recoverable) (\$)
January, 2016	713.0	753.9	(40.9)	41.73	(1,707)	50.42	(86,055)	(86,055)
February, 2016	628.2	688.2	(60.0)	41.73	(2,504)	50.42	(126,242)	(212,296)
March, 2016	654.0	637.2	16.8	41.73	701	50.42	35,348	(176,949)
April, 2016	475.0	420.6	54.4	41.73	2,270	50.42	114,459	(62,490)
May, 2016	259.0	264.5	(5.5)	41.73	(230)	50.42	(11,572)	(74,062)
June, 2016	121.0	110.0	11.0	41.73	459	50.42	23,144	(50,917)
July, 2016	30.0	16.5	13.5	41.73	563	50.42	28,404	(22,513)
August, 2016	23.0	24.2	(1.2)	41.73	(50)	50.42	(2,525)	(25,038)
September, 2016	101.0	107.1	(6.1)	41.73	(255)	50.42	(12,835)	(37,872)
October, 2016	255.0	272.8	(17.8)	41.73	(743)	50.42	(37,452)	(75,324)
November, 2016	401.0	421.8	(20.8)	41.73	(868)	50.42	(43,764)	(119,088)
December, 2016	665.0	620.5	44.5	41.73	1,857	50.42	93,629	(25,459)
January, 2017	712.0	751.4	(39.4)	43.21	(1,702)	49.56	(84,375)	(109,833)
February, 2017	657.0	704.2	(47.2)	43.21	(2,040)	49.56	(101,078)	(210,912)
March, 2017	690.0	646.1	43.9	43.21	1,897	49.56	94,011	(116,900)
April, 2017	416.0	433.7	(17.7)	43.21	(765)	49.56	(37,904)	(154,805)
May, 2017	264.0	256.4	7.6	43.21	328	49.56	16,275	(138,529)
June, 2017	94.0	114.6	(20.6)	43.21	(890)	49.56	(44,115)	(182,644)
July, 2017	27.0	16.4	10.6	43.21	458	49.56	22,700	(159,944)
August, 2017	29.0	22.8	6.2	43.21	268	49.56	13,277	(146,667)
September, 2017	92.0	106.2	(14.2)	43.21	(614)	49.56	(30,409)	(177,076)
October, 2017	202.8	279.6	(76.8)	43.21	(3,319)	49.56	(164,466)	(341,542)
November, 2017	439.7	423.6	16.1	43.21	696	49.56	34,478	(307,064)
December, 2017	695.4	613.2	82.2	43.21	3,552	49.56	176,030	(131,034)
January, 2018	764.4	760.1	4.3	46.66	201	51.38	10,309	(120,725)
February, 2018	620.8	699.3	(78.5)	46.66	(3,663)	51.38	(188,195)	(308,920)
March, 2018	602.0	652.1	(50.1)	46.66	(2,338)	51.38	(120,109)	(429,030)
April, 2018	445.1	440.1	5.0	46.66	233	51.38	11,987	(417,043)
May, 2018	279.9	261.9	18.0	46.66	840	51.38	43,153	(373,890)
June, 2018	168.4	121.2	47.2	46.66	2,202	51.38	113,157	(260,733)
July, 2018	14.0	18.9	(4.9)	46.66	(229)	51.38	(11,747)	(272,480)
August, 2018	9.4	19.9	(10.5)	46.66	(490)	51.38	(25,173)	(297,653)
September, 2018	124.7	104.7	20.0	46.66	933	51.38	47,948	(249,705)
October, 2018	338.7	276.1	62.6	46.66	2,921	51.38	150,077	(99,628)
November, 2018	519.5	426.3	93.2	46.66	4,349	51.38	223,437	123,809
December, 2018	709.0	620.5	88.5	46.66	4,129	51.38	212,169	335,978
January, 2019	756.5	757.6	(1.1)	50.19	(55)	52.09	(2,876)	333,102
February, 2019	736.8	688.7	48.1	50.19	2,414	52.09	125,750	458,852
March, 2019	637.5	656.8	(19.3)	50.19	(969)	52.09	(50,457)	408,395
April, 2019	448.8	432.6	16.2	50.19	813	52.09	42,352	450,747
May, 2019	351.6	257.5	94.1	50.19	4,723	52.09	246,010	696,757
June, 2019	105.9	118.5	(12.6)	50.19	(632)	52.09	(32,941)	663,817
July, 2019	25.5	18.7	6.8	50.19	341	52.09	17,778	681,594
August, 2019	17.3	19.0	(1.7)	50.19	(85)	52.09	(4,444)	677,150
September, 2019	142.6	101.9	40.7	50.19	2,043	52.09	106,404	783,554
October, 2019	298.9	271.6	27.3	50.19	1,371	52.09	71,424	854,977
November, 2019	478.7	425.7	53.0	50.19	2,660	52.09	138,560	993,538
December, 2019	638.3	613.9	24.4	50.19	1,225	52.09	63,790	1,057,328